

# CLINICAL AND EXPERIMENTAL IMMUNOLOGY

AN OFFICIAL JOURNAL OF THE  
BRITISH SOCIETY FOR IMMUNOLOGY

*Editor*

M. J. WALPORT

*Associate Editors*

P. J. LACHMANN, P. J. M. OPENSHAW,  
A. D. B. WEBSTER and A. P. WEETMAN

*Editorial board*

P. W. ANDREW, J. F. BACH, A. BASTEN, Z. BENTWICH, A. G. BIRD, G. F. BOTTAZZO,  
H. CHAPEL, P. J. CICLITIRA, M. COOPER, C. CUNNINGHAM-RUNDLES, M. R. DAHA,  
R. L. DAWKINS, A. M. DENMAN, U. DESSELBERGER, D. FEARON, M. FELDMANN,  
J. S. H. GASTON, M. R. HAENEY, A. HAMBLIN, J. A. HANSEN, M. HARBOE, J. IVANYI,  
R. JEFFERIS, J. R. KALDEN, D. KATY, M. KEMENY, T. KISHIMOTO, M. LOCKWOOD,  
T. T. MACDONALD, R. N. MAINI, P. MATHIESON, B. P. MORGAN, D. OLIVEIRA,  
A. J. PINCHING, D. S. PISETSKY, T. PLATTS-MILLS, R. REISFELD, J. RHODES, R. R. RICH,  
F. S. ROSEN, J. SAKLATVALA, S. F. SCHLOSSMAN, A. SEGAL, E. M. TAN, A. THOMSON,  
R. THORPE, H. VALDIMARSSON, P. VENABLES, T. A. WALDMANN, K. WHALEY,  
H. N. A. WILLCOX, R. WILLIAMS

VOLUME 113  
pages 1-478

BLACKWELL SCIENCE LTD

OXFORD LONDON EDINBURGH BOSTON MELBOURNE PARIS BERLIN VIENNA

1998

Published for the British Society for Immunology by  
Blackwell Science Ltd  
Osney Mead, Oxford OX2 0EL, UK  
25 John Street, London WC1N 2BL, UK  
23 Ainslie Place, Edinburgh EH3 6AJ, UK  
Suite 500, 5th Floor, 238 Main Street, Boston, MA 02142, USA  
107 Barry Street, Carlton, Victoria 3053, Australia  
Meinekestrasse 4, D-1000 Berlin 15, Germany  
15 rue Casimir Delavigne, 75005 Paris, France  
Feldgasse 13, A-1238 Vienna, Austria

Typeset and Printed by the Alden Group, Oxford.

© 1998 Blackwell Science Ltd. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Blackwell Scientific Publications Ltd. For libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, authorization is granted provided that the base fee of \$14.00 per copy is paid directly to CCC, 222 Rosewood Drive, Suite 910, Danvers, MA 01923, USA. This consent does not extend to other kinds of copying, such as copying for general distribution for advertising or promotional purposes, for creating new collective works or for resale. Special requests should be addressed to the Editor. 0009—9104/98/\$14.00.

# CLINICAL AND EXPERIMENTAL IMMUNOLOGY

## CONTENTS

Vol 113 No 1 July 1998

M. YASUE, T. YOKOTA, M. FUKADA, T. TAKAI, M. SUKO,  
H. OKUDAIRA & Y. OKUMURA

Hyposensitization to allergic reaction in rDer f  
2-sensitized mice by the intranasal administration of a  
mutant of rDer f 2, C8/119S

T. NOMA, K. ICHIKAWA, I. YOSHIZAWA, K. AOKI,  
Y. KAWANO & M. BABA

Reduced IL-1 production in adolescents with mite  
asthma in remission

J. J. RYAN, P. J. MASON, C. D. PUSEY & N. TURNER

Recombinant  $\alpha$ -chains of type IV collagen demonstrate  
that the amino terminal of the Goodpasture autoantigen  
is crucial for antibody recognition

M. PARKES, J. SATSANGI & D. JEWELL

Contribution of the IL-2 and IL-10 genes to  
inflammatory bowel disease (IBD) susceptibility

S. HODGE, G. HODGE, R. FLOWER & P. HAN

Surface activation markers of T lymphocytes: role in the  
detection of infection in neonates

M. VULCANO, M. F. ALVES ROSA, F. S. MINNUCCI,

A. C. CHERNAVSKY & M. A. ISTURIZ

*N*-formyl-methionyl-leucyl-phenylalanine (fMLP)  
inhibits tumour necrosis factor- $\alpha$  (TNF- $\alpha$ )

production on lipopolysaccharide (LPS)-stimulated  
human neutrophils

P. CACOUB, L. MUSSET, P. HAUSFATER, P. GHILLANI,

F. L. FABIANI, F. CHARLOTTE, E. ANGEVIN, P. OPOLON,

T. POYNARD, J.-C. PIETTE & B. AUTRAN

No evidence for abnormal immune activation in  
peripheral blood T cells in patients with hepatitis C virus

(HCV) infection with or without cryoglobulinaemia  
R. J. NORTH

Mice incapable of making IL-4 or IL-10 display normal  
resistance to infection with *Mycobacterium tuberculosis*

F. JACOBS, D. CHAUSSABEL, C. TRUYENS, V. LECLERQ,

Y. CARLIER, M. GOLDMAN & B. VRAY

IL-10 up-regulates nitric oxide (NO) synthesis by  
lipopolysaccharide (LPS)-activated macrophages:

improved control of *Trypanosoma cruzi* infection

S. GUPTA, S. AGGARWAL & T. NGUYEN

Increased spontaneous apoptosis in T lymphocytes in  
DiGeorge anomaly

M. KANEKO, H. INOUE, R. NAKAZAWA, N. AZUMA,

M. SUZUKI, S. YAMAUCHI, S. B. MARGOLIN, K. TSUBOTA

& I. SAITO

Pirfenidone induces intercellular adhesion molecule-1  
(ICAM-1) down-regulation on cultured human synovial  
fibroblasts

H. SHOHAM-KESSARY, Y. NAOT & H. GERSHON

Immune complex-like moieties in immunoglobulin for  
intravenous use (IVIg) bind complement and enhance  
phagocytosis of human erythrocytes

A. D. KELLEHER, M. ROGGENSACK, S. EMERY, A. CARR,  
M. A. FRENCH & D. A. COOPER

Effects of IL-2 therapy in asymptomatic HIV-infected  
individuals on proliferative responses to mitogens, recall  
antigens and HIV-related antigens

Ş. BAYRAK & N. A. MITCHISON

Bystander suppression of murine collagen-induced  
arthritis by long-term nasal administration of a self type  
II collagen peptide

F. NICOLETTI, R. DI MARCO, F. PATTI, E. REGGIO,

A. NICOLETTI, P. ZACCONE, F. STIVALA, P. L. MERONI

& A. REGGIO

Blood levels of transforming growth factor- $\beta$  1  
(TGF- $\beta$ 1) are elevated in both relapsing remitting and  
chronic progressive multiple sclerosis (MS) patients and  
are further augmented by treatment with  
interferon- $\beta$  1b (IFN- $\beta$ 1b)

B. TAŞÇI, H. DİRESKENELİ, P. SERDAROĞLU,

G. AKMAN-DEMİR, M. ERAKSOY

& G. SARUHAN-DİRESKENELİ

Humoral immune response to mycobacterial heat shock  
protein (hsp)65 in the cerebrospinal fluid of neuro-Behçet  
patients

A. WASSENAAR, C. REINHARDUS, L. ABRAHAM-INPIN,

A. SNIJDERS & F. KIEVITS

Characteristics of *Prevotella intermedia*-specific CD4<sup>+</sup> T  
cell clones from peripheral blood of a chronic adult  
periodontitis patient

H. VLASE, M. WEISS, P. N. GRAVES & T. F. DAVIES

Characterization of the murine immune response to the  
murine TSH receptor ectodomain: induction of  
hypothyroidism and TSH receptor antibodies

S. H. WANG, G. CARAYANNIOTIS, Y. ZHANG, M. GUPTA,

A. M. MCGREGOR & J. P. BANGA

Induction of thyroiditis in mice with thyrotropin receptor  
lacking serologically dominant regions

J. R. DE LA VEGA, J. C. VILAPLANA, A. BIRO,

L. HAMMOND, G. F. BOTTAZZO & R. MIRAKIAN

IL-10 expression in thyroid glands: protective or harmful  
role against thyroid autoimmunity?

J. M. CRUZADO, J. TORRAS, M. RIERA, N. LLOBERAS,

I. HERRERO, E. CONDOM, J. MARTORELL, J. ALSINA

& J. M. GRINYÓ

Effect of a platelet-activating factor (PAF) receptor  
antagonist on hyperacute xenograft rejection;  
evaluation in a pig kidney—human blood xenoperfusion  
model

## Vol 113 No 2 August 1998

- K.-D. KRÖNCKE, K. FEHSEL & V. KOLB-BACHOFEN  
Inducible nitric oxide synthase in human diseases 147  
X.-F. LEI, Y. OHKAWARA, M. R. STÄMPFLI, J. GAULDIE,  
K. CROITORU, M. JORDANA & Z. XING  
Compartmentalized transgene expression of granulocyte-  
macrophage colony-stimulating factor (GM-CSF) in  
mouse lung enhances allergic airways inflammation 157  
C. I. BALDWIN, A. TODD, S. BOURKE, A. ALLEN  
& J. E. CALVERT  
Pigeon fanciers' lung: effects of smoking on serum and  
salivary antibody responses to pigeon antigens 166  
S. VARSANO, L. RASHKOVSKY, H. SHAPIRO, D. OPHIR  
& T. MARK-BENTANKUR  
Human lung cancer cell lines express cell membrane  
complement inhibitory proteins and are extremely  
resistant to complement-mediated lysis; a comparison  
with normal human respiratory epithelium *in vitro*,  
and an insight into mechanism(s) of resistance 173  
S. L. GIANNINI, W. AL-SALEH, H. PIRON, N. JACOBS,  
J. DOYEN, J. BONIVER & P. DELVENNE  
Cytokine expression in squamous intraepithelial lesions  
of the uterine cervix: implications for the generation of  
local immunosuppression 183  
S. SANO, Y. MATSUI, S. ITAMI & K. YOSHIKAWA  
Immunological study on CD3 defective cutaneous T cell  
lymphoma cells from a patient with Sézary syndrome 190  
L. BIANCONE, G. MONTELEONE, R. MARASCO  
& F. PALLONE  
Autoimmunity to tropomyosin isoforms in ulcerative  
colitis (UC) patients and unaffected relatives 198  
J. B. DE SANCTIS, I. BLANCA, H. RIVERA & N. E. BIANCO  
Expression of low-density lipoprotein receptors in  
peripheral blood and tonsil B lymphocytes 206  
L. O'MAHONY, J. HOLLAND, J. JACKSON, C. FEIGHERY,  
T. P. J. HENNESSY & K. MEALY  
Quantitative intracellular cytokine measurement:  
age-related changes in proinflammatory cytokine  
production 213  
N. MUSA, Y. YOSHIDA, S. SUGAHARA, S. YAMAGIWA,  
T. KOYA, H. WATANABE, K. HATAKEYAMA & T. ABO  
Expansion of CD56<sup>+</sup> NK T and  $\gamma\delta$  T cells from cord  
blood of human neonates 220  
N. JOHNSON & J. M. PARKIN  
Anti-retroviral therapy reverses HIV-associated  
abnormalities in lymphocyte apoptosis 229  
K.-F. HU, M. ELVANDER, M. MERZA, L. ÅKERBLÖM,  
A. BRANDENBURG & B. MOREIN  
The immunostimulating complex (ISCOM) is an efficient  
mucosal delivery system for respiratory syncytial virus  
(RSV) envelope antigens inducing high local and systemic  
antibody responses 235  
H. M. DIEPOLDER, M.-C. JUNG, E. KELLER, W. SCHRAUT,  
J.-T. GERLACH, N. GRÜNER, R. ZACHOVAL,  
R. M. HOFFMANN, C.-A. SCHIRREN, S. SCHOLZ  
& G. R. PAPE  
A vigorous virus-specific CD4<sup>+</sup> T cell response may  
contribute to the association of HLA-DR13 with viral  
clearance in hepatitis B 244  
A. KLEMM, T. TSCHERNIG, N. KRUG & R. PABST  
Lymphocyte subsets in distinct lung compartments show  
a different ability to produce interferon-gamma (IFN- $\gamma$ )  
during a pulmonary immune response 252  
C.-W. YANG, C.-C. YU, Y.-C. KO & C.-C. HUANG  
Aminoguanidine reduces glomerular inducible nitric  
oxide synthase (iNOS) and transforming growth  
factor-beta 1 (TGF- $\beta$ 1) mRNA expression and  
diminishes glomerulosclerosis in NZB/W F<sub>1</sub> mice 258  
YU. NATORI, Z. L. OU, Y. YAMAMOTO-SHUDA  
& Y. NATORI  
Expression of lymphotactin mRNA in experimental  
crescentic glomerulonephritis 265  
N. LAMBERT, P. L. LESCOULIÉ, B. YASSINE-DIAB,  
G. ENAULT, B. MAZIÉRES, C. DE PRÉVAL & A. CANTAGREL  
Substance P enhances cytokine-induced vascular cell  
adhesion molecule-1 (VCAM-1) expression on cultured  
rheumatoid fibroblast-like synoviocytes 269  
S. P. MOYES, R. N. MAINI & R. A. MAGEED  
Differential use of immunoglobulin light chain genes and  
B lymphocyte expansion at sites of disease in rheumatoid  
arthritis (RA) compared with circulating B lymphocytes 276  
W. S. PRINCE, D. L. BAKER, A. H. DODGE, A. E. AHMED,  
R. W. CHESTNUT & D. V. SINICROPI  
Pharmacodynamics of recombinant human DNase I in  
serum 289  
A. M. SABOORI, N. R. ROSE, H. S. BRESLER,  
M. VLADUT-TALOR & C. L. BUREK  
Iodination of human thyroglobulin (Tg) alters its  
immunoreactivity. I. Iodination alters multiple epitopes  
of human Tg 297  
A. M. SABOORI, N. R. ROSE & C. L. BUREK  
Iodination of human thyroglobulin (Tg) alters its  
immunoreactivity. II. Fine specificity of a monoclonal  
antibody that recognizes iodinated Tg 303  
M. ITOH, K. UCHIMURA, N. HAYAKAWA, M. MAKINO,  
R. HAYASHI, M. NAGATA, H. KAKIZAWA, A. NAGASAKA,  
H. SAKAMOTO & H. KUZUYA  
Surface expression and release of soluble forms of CD8  
and CD23 in CD40- and IL-4-activated mononuclear  
cells from patients with Graves' disease (GD) 309
- Vol 113 No 3 September 1998**
- P. CHOI & H. REISER  
IL-4: role in disease and regulation of production 317  
D. M. A. BULLENS, A. KASRAN, X. PENG, K. LORRÉ  
& J. L. CEUPPENS  
Effects of anti-IL-4 receptor monoclonal antibody on *in vitro* T cell cytokine levels: IL-4 production by T cells  
from non-atopic donors 320  
S. A. BELL, H. FAUST, A. SCHMID & M. MEURER  
Autoantibodies to C-reactive protein (CRP) and other  
acute-phase proteins in systemic autoimmune diseases 327  
J. G. M. C. DAMOISEAUX, L. J. J. BEUVELD  
& P. J. C. VAN BREDA VRIESMAN  
A dominant role for non-MHC gene effects in  
susceptibility to cyclosporin A (CsA)-induced  
autoimmunity 333

O. HAJOUJ, S. MARTIN & F. ALVAREZ Study of antigenic sites on the asialoglycoprotein receptor recognized by autoantibodies M. FERRER, M. YUNTA & P. A. LAZO Pattern of expression of tetraspanin antigen genes in Burkitt lymphoma cell lines C. SUANKRATAY, C. MOLD, Y. ZHANG, L. A. POTEMPA, T. F. LINT & H. GEWURZ Complement regulation in innate immunity and the acute-phase response: inhibition of mannan-binding lectin-initiated complement cytolysis by C-reactive protein (CRP) N. R. LING, D. L. HARDIE, G. D. JOHNSON & I. C. M. MACLENNAN Origin and properties of soluble CD21 (CR2) in human blood H. XIE, Y.-J. DENG, A. L. NOTKINS & M. S. LAN Expression, characterization, processing and immunogenicity of an insulin-dependent diabetes mellitus autoantigen, IA-2, in Sf-9 cells I. CORDIANO, C. BETTERLE, C. A. SPADACCINO, B. SOINI, A. GIROLAMI & F. FABRIS Autoimmune thrombocytopenia (AITP) and thyroid autoimmune disease (TAD): overlapping syndromes? J. NASU, M. MIZUNO, T. UESU, K. TAKEUCHI, T. INABA, S. OHYA, M. KAWADA, K. SHIMO, H. OKADA, T. FUJITA & T. TSUJI Cytokine-stimulated release of decay-accelerating factor (DAF; CD55) from HT-29 human intestinal epithelial cells C. DESVIGNES, F. ESTÈVES, N. ETCHART, C. BELLA, C. CZERKINSKY & D. KAISERLIAN The murine buccal mucosa is an inductive site for priming class I-restricted CD8 <sup>+</sup> effector T cells <i>in vivo</i> B. SILVESTRI, F. CALDERAZZO, V. COPPOLA, A. ROSATO, S. IACOBELLI, C. NATOLI, A. ULLRICH, I. SURES, M. AZAM, C. BRAKEBUSH, L. CHIECO-BIANCHI & A. AMADORI Differential effect on TCR:CD3 stimulation of a 90-kD glycoprotein (gp90/Mac-2BP), a member of the scavenger receptor cysteine-rich domain protein family E. LOUIS, D. FRANCHIMONT, A. PIRON, Y. GEVAERT, N. SCHAFF-LAFONTAINE, S. ROLAND, P. MAHIEU, M. MALAISE, D. DE GROOTE, R. LOUIS & J. BELAICHE Tumour necrosis factor (TNF) gene polymorphism influences TNF- $\alpha$ production in lipopolysaccharide (LPS)-stimulated whole blood cell culture in healthy humans K. NAGARAJU, N. RABEN, G. MERRITT, L. LOEFFLER, K. KIRK & P. PLOTZ A variety of cytokines and immunologically relevant surface molecules are expressed by normal human skeletal muscle cells under proinflammatory stimuli M. J. VAN VUGT, I. E. VAN DEN HERIK-ODDIK & J. G. J. VAN DE WINKEL Fc $\gamma$ R1a- $\gamma$ -chain complexes trigger antibody-dependent cell-mediated cytotoxicity (ADCC) in CD5 <sup>+</sup> B cell/ macrophage IIA1.6 cells M. L. TAYLOR, E. DUARTE-ESCALANTE, M. R. REYES-MONTES, N. ELIZONDO, G. MALDONADO & E. ZENTENO Interaction of murine macrophage-membrane proteins with components of the pathogenic fungus <i>Histoplasma capsulatum</i> V. A. J. KEMPE, E. BOHN, A. NOLL, C. BIELFELDT & I. B. AUTENRIETH <i>In vivo</i> tracking and protective properties of <i>Yersinia</i> -specific intestinal T cells S. KHANOLKAR-YOUNG, D. SNOWDON & D. N. J. LOCKWOOD Immunocytochemical localization of inducible nitric oxide synthase and transforming growth factor-beta (TGF- $\beta$ ) in leprosy lesions A. D. HOWARD & B. S. ZWILLING Cytokine production by CD4 and CD8 T cells during the growth of <i>Mycobacterium tuberculosis</i> in mice A. M. THURAU, H. J. STRECKERT, C. H. L. RIEGER & U. SCHAUER Increased number of T cells committed to IL-5 production after respiratory syncytial virus (RSV) infection of human mononuclear cells <i>in vitro</i> B.-Y. XU, R. GISCOMBE, A. SÄDERLUND, M. TROYE-BLOMBERG, R. PIIRSKANEN & A. K. LEFVERT Abnormal T cell receptor V gene usage in myasthenia gravis: prevalence and characterization of expanded T cell populations P. SACERDOTE, V. E. M. R. DI SAN SECONDO, G. SIRCHIA, B. MANFREDI & A. E. PANERAI Endogenous opioids modulate allograft rejection time in mice: possible relation with Th1/Th2 cytokines	339  346  353  360  367  373  379  386  394  401  407  415  423  429  438  443  450  456  465
---	---